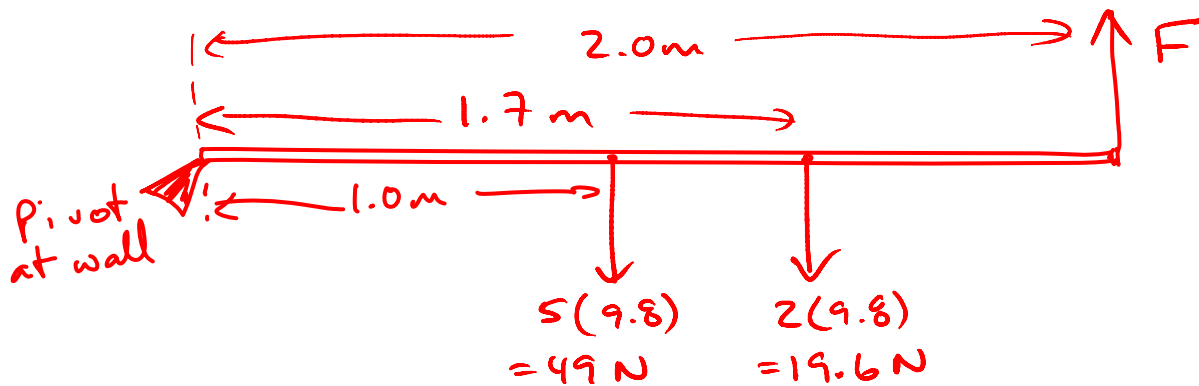
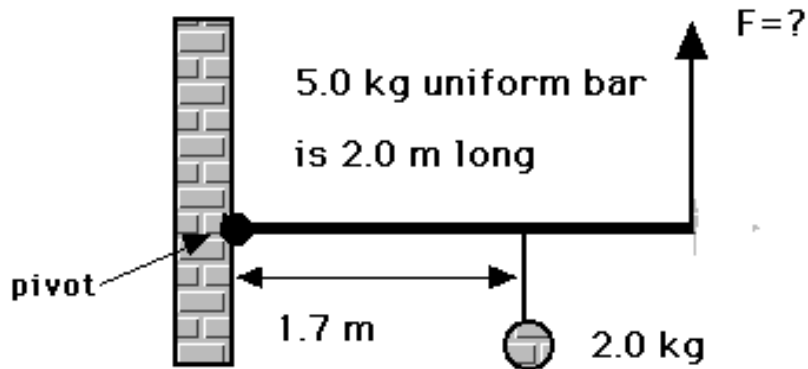


Example #11. A 5.0 kg uniform bar is attached to the wall as shown below, with a 2.0 kg weight hung in the indicated location. What minimum vertical force is needed to cause the system to be in rotational equilibrium?



$$\tau_{cw} = \tau_{ccw}$$

$$49(1) + 19.6(1.7) = F(2)$$

$$\boxed{F = 41 \text{ N}}$$